
	Recommended Program of Study for: <b>Mechanical Drafting and Design</b>				
<b>Career Cluster: Manufacturing</b>			<b>Career Pathway: Manufacturing Production Process Development</b>		
<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>	<b>Postsecondary</b>	
English I	English II	English III	English IV	College of Southern Nevada Great Basin College Nevada State College Truckee Meadows Community College University of Nevada, Las Vegas University of Nevada, Reno Western Nevada College	
Algebra I	Geometry I	Algebra II	Senior Level Math Course		
Biology	Chemistry or Geoscience	Junior Level Science Course	Elective <sup>1</sup>		
Health / Computer Literacy	World History	US History	US Government		
Physical Education	Physical Education	Foreign Language <sup>2</sup> or Elective <sup>1</sup>	Foreign Language <sup>2</sup> or Elective <sup>1</sup>		
Mechanical Drafting and Design I	Mechanical Drafting and Design II	Mechanical Drafting and Design III <sup>3</sup>	Mechanical Drafting and Design Advanced Studies	<b>Career and Technical Student Organizations</b>	
<b>Work-Based Learning</b>		<b>Secondary</b>	<b>-- Articulation --</b>		
Job Shadowing Internship / Work Experience Career Day / Fair Field Trips / Guest Speakers		Mechanical Drafting and Design I Mechanical Drafting and Design II Mechanical Drafting and Design III	Up to 9 credits at College of Southern Nevada Up to 8 credits at Truckee Meadows Community College  (subject to change)		SkillsUSA
<b>CTE Assessments<sup>3</sup></b>		<b>Available Industry Certifications</b>		<b>High Wage - High Skill - High Demand Careers<sup>4</sup></b>	
-End of Program Technical Assessment for Mechanical Drafting and Design -Workplace Readiness Skills Assessment (for Employability Skills Standards)		<b>Certification</b> Autodesk Certified User Certified Apprentice Drafter Certified Solidworks Associate	<b>Provider</b> AutoDesk American Design Drafting Associate Solidworks	Designer Design Engineer Industrial Engineer Manufacturing Engineer	Precision Inspector, Tester, and Grader Process Improvement Technician

This Program of Study is based upon the requirements needed for an Advanced Diploma. Academic course names may vary among school districts. All students must pass the high school proficiency exams to qualify for any high school diploma.

<sup>1</sup> Electives may include arts and humanities courses or other career and technical education courses that relate to the program of study.

<sup>2</sup> Foreign Language courses are recommended if a student is planning on entering a university. (See individual university admission policies)

<sup>3</sup> CTE Assessments will be administered during the completion level CTE course.

<sup>4</sup> For additional career and employment information visit <http://www.nvcis.intocareers.org/> and <http://www.NevadaYouth.org>